

LISTING OF CLAIMS:

1. (Currently amended) An organic electro luminescence display panel comprising:
a hole transport layer; ~~and~~
a luminescent layer disposed on the hole transport layer; and [,]
an electron transport layer disposed on that luminescent layer,
wherein the luminescent layer includes at least first and second luminescent layers,
wherein the first and second luminescent layers are repeatedly arranged on the hole
transport layer so as to be adjacent each other,
wherein the first luminescent layer includes a first dopant for emitting a first light having
a first wavelength, and the second luminescent layer includes a second dopant for emitting a
second light having a second wavelength, which is shorter than the first wavelength, ~~and~~
wherein no first dopant is disposed between the hole transport layer and the second
luminescent layer,
wherein each of the first and second luminescent layers includes a hole transporting
material as a host material,
wherein the hole transport layer includes a plurality of parts of the hole transport layer,
wherein the parts of the hole transport layer include at least first and second part hole
transport layers, which correspond to the first and second luminescent layers, respectively,
wherein both of the first luminescent layer and the first part hole transport layer are
independent from the second luminescent layer and the second part hole transport layer,
wherein the electron transport layer is made of an electron transporting material having an
ionization potential,

wherein the hole transporting material in the one of the first and second luminescent layers has another ionization potential, which is 0.2eV lower than that of the electron transporting material in the electron transport layer,

wherein the electron transport layer includes a plurality of parts of the electron transport layer,

wherein the parts of the electron transport layer include at least first and second part electron transport layers, which correspond to the first and second luminescent layers, respectively, and

wherein both of the first luminescent layer and the first part electron transport layer are independent from the second luminescent layer and the second electron transport layer.

2. (Currently amended) The display panel according to claim 1, further comprising:

a substrate;

an anode layer;

~~an electron transport layer;~~ and

a cathode layer,

wherein the anode layer, the hole transport layer, the luminescent layer, the electron transport layer and the cathode layer are disposed on the substrate in this order.

3. (Canceled)

4. (Original) The display panel according to claim 2, further comprising:

a hole injection layer disposed between the anode layer and the hole transport layer.

5. (Canceled)

6. (Currently amended) The display panel according to claim ~~[[5]]~~ 1,

wherein one of the first and second luminescent layers and one part of the hole transport layer corresponding to the one of the first and second luminescent layers are ~~successively formed~~ independent from the other one of the first and second luminescent layers and the other one part of the hole transport layer corresponding to the other one of the first and second luminescent layers so that no dopant of the other one of the first and second luminescent layers is disposed between the one part of the hole transport layer and the one of the first and second luminescent layers.

7. (Original) The display panel according to claim 6,

wherein the first luminescent layer is formed with using a time-sharing method before the second luminescent layer is formed.

8. (Currently amended) The display panel according to claim ~~[[3]]~~ 1,

wherein the luminescent layer further includes a third luminescent layer, which includes a third dopant for emitting a third light having a third wavelength,

wherein the first light is a red light, the second light is a green light, and the third light is

a blue light, and

wherein the first, second and third luminescent layers are repeatedly arranged on the hole transport layer so as to be adjacent together.

9. (Original) The display panel according to claim 2,
wherein no first dopant is disposed between the electron transport layer and the second luminescent layer.

10. (Canceled)

11. (Original) The display panel according to claim 9, further comprising:
a hole injection layer disposed between the anode layer and the hole transport layer.

12. (Canceled)

13. (Currently amended) The display panel according to claim ~~12~~ 1,
wherein one of the first and second luminescent layers and one part of the electron transport layer corresponding to the one of the first and second luminescent layers are successively formed independent from the other one of the first and second luminescent layers and the other one part of the hole transport layer corresponding to the other one of the first and second luminescent layers so that no dopant of the other one of the first and second luminescent layers is disposed between the one part of the electron transport layer and the one of the first and

second luminescent layers.

14. (Original) The display panel according to claim 13,
wherein the second luminescent layer is formed on the hole transport layer with using a time-sharing method before the first luminescent layer is formed on the hole transport layer.

15. (Original) The display panel according to claim 9,
wherein the luminescent layer further includes a third luminescent layer, which includes a third dopant for emitting a third light having a third wavelength,
wherein the first light is a red light, the second light is a green light, and the third light is a blue light, and
wherein the first, second and third luminescent layers are repeatedly arranged on the hole transport layer so as to be adjacent together.

16. (Canceled)

17. (Currently amended) The display panel according to claim 16, further comprising:
a substrate;
an anode layer;
~~an electron transport layer;~~ and
a cathode layer,
wherein the anode layer, the hole transport layer, the luminescent layer, the electron

transport layer and the cathode layer are disposed on the substrate in this order, and

wherein the first luminescent layer includes a first dopant for emitting a first light having a first wavelength, and the second luminescent layer includes a second dopant for emitting a second light having a second wavelength, which is shorter than the first wavelength.

18. (Currently amended) The display panel according to claim ~~16~~ 17,

wherein the hole transporting material of the one of the first and second luminescent layers is disposed at an interface between the other one of the first and second luminescent layers and the hole transport layer.

19. (Original) The display panel according to claim 18,

wherein the interface further includes an electron transporting material for composing the other one of the first and second luminescent layers.

20. (Canceled)

21. (Original) The display panel according to claim 17,

wherein the luminescent layer further includes a third luminescent layer, which includes a third dopant for emitting a third light having a third wavelength,

wherein the first light is a red light, the second light is a green light, and the third light is a blue light, and

wherein the first, second and third luminescent layers are repeatedly arranged on the hole transport layer so as to be adjacent together.

22. (Canceled)

23. (Currently amended) The display panel according to claim ~~22~~ 1,
wherein both of the first and second luminescent layers are made of the electron transporting material as a host material.

24-34. (Canceled)

35. (New) An organic electro luminescence display panel comprising:
a hole transport layer;
a luminescent layer disposed on the hole transport layer;
a substrate;
an anode layer;
an electron transport layer; and
a cathode layer,
wherein the anode layer, the hole transport layer, the luminescent layer, the electron transport layer and the cathode layer are disposed on the substrate in this order,
wherein the luminescent layer includes at least first and second luminescent layers,

wherein the first and second luminescent layers are repeatedly arranged on the hole transport layer so as to be adjacent each other,

wherein each of the first and second luminescent layers includes a hole transporting material and an electron transporting material as a host material,

the first luminescent layer, the second luminescent layer and the electron transport layer are disposed independently,

wherein the first luminescent layer includes a first dopant for emitting a first light having a first wavelength, and the second luminescent layer includes a second dopant for emitting a second light having a second wavelength, which is shorter than the first wavelength,

wherein the electron transport layer is made of an electron transporting material having an ionization potential,

wherein the electron transport layer includes first and second electron transport layers, which are sandwiched between the cathode layer and the luminescent layer,

wherein the first electron transport layer is disposed on the luminescent layer, and the second electron transport layer is disposed on the first electron transport layer,

wherein the hole transporting material in one of the first and second luminescent layers has another ionization potential, which is 0.2eV lower than that of the electron transporting material in the first electron transport layer, and

wherein the first electron transport layer is a hole block layer.